

Recovery Plan Action Status

Plan Name: Ilex cookii and Cyathea dryopteroides Recovery Plan

Plan Status: Final

Plan Date: 31-Jan-91

Lead Agency: USFWS

Lead Office: Caribbean Ecological Services Field Office

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Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Elfin tree fern (Cyathea dryopteroides), Cook's holly (Ilex cookii)	1	111	Limit expansion and prevent further development	Not Started			Puerto Rico Department of Natural and Environmental Resources, U.S. Fish and Wildlife Service, Office of Endangered Species, USFWS Regional Office 4	Acquisition: Easement	Internal Administrative	
Elfin tree fern (Cyathea dryopteroides), Cook's holly (Ilex cookii)	1	112	Develop cooperative agreements	Not Started			Puerto Rico Department of Natural and Environmental Resources, U.S. Fish and Wildlife Service, Office of Endangered Species, USFWS Regional Office 4, Puerto Rico Department of Transportation and Public Works	Acquisition	Internal Administrative	
Elfin tree fern (Cyathea dryopteroides), Cook's holly (Ilex cookii)	1	113	Prohibit use for military training maneuvers	Obsolete			Puerto Rico Department of Natural and Environmental Resources, U.S. Fish and Wildlife Service, Office of Endangered Species, USFWS Regional Office 4	Management: Land Use	Internal Administrative	
Elfin tree fern (Cyathea dryopteroides), Cook's holly (Ilex cookii)	1	114	Coordinate and develop management plan	Not Started			Puerto Rico Department of Natural and Environmental Resources, U.S. Fish and Wildlife Service, Office of Endangered Species, USFWS Regional Office 4	Management	Internal Field Assistance	

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Elfin tree fern (Cyathea dryopteroides), Cook's holly (Ilex cookii)	1	121	Monitor all known populations	Not Started			Puerto Rico Department of Natural and Environmental Resources, U.S. Fish and Wildlife Service, Office of Endangered Species, USFWS Regional Office 4	Research	Contract, Graduate Student, Internal Field Assistance, Species Expert, Volunteer	
Elfin tree fern (Cyathea dryopteroides), Cook's holly (Ilex cookii)	1	122	Enforce existing regulations	Ongoing Current	Prior to FY 1995	FY 2011	Puerto Rico Department of Natural and Environmental Resources, U.S. Fish and Wildlife Service, Office of Endangered Species, USFWS Regional Office 4	Other: Law Enforcement	Internal Field Assistance	DNER has enforcement rangers.
Elfin tree fern (Cyathea dryopteroides), Cook's holly (Ilex cookii)	1	123	Educate the public	Ongoing Current	Prior to FY 1995	FY 2011	Puerto Rico Department of Natural and Environmental Resources, U.S. Fish and Wildlife Service, Office of Endangered Species, USFWS Regional Office 4	Other: Information and Education	Internal Administrative	Species is included in public education programs.
Elfin tree fern (Cyathea dryopteroides), Cook's holly (Ilex cookii)	2	21	Continue to search for new populations	Not Started			U.S. Forest Service, Puerto Rico Department of Natural and Environmental Resources, U.S. Fish and Wildlife Service, Office of Endangered Species	Research	Graduate Student, Species Expert	
Elfin tree fern (Cyathea dryopteroides), Cook's holly (Ilex cookii)	2	31	Evaluate feasibility of artificial propagation	Not Started			Botanical Gardens, U.S. Fish and Wildlife Service, Office of Endangered Species	Research	Graduate Student, Species Expert	
Elfin tree fern (Cyathea dryopteroides), Cook's holly (Ilex cookii)	2	32	Investigate reproductive biology and ecology	Not Started			Universities, U.S. Fish and Wildlife Service, Office of Endangered Species	Work type not yet selected	Labor type not yet selected	Includes Tasks 321, 322, 323, 324, 325.
Elfin tree fern (Cyathea dryopteroides), Cook's holly (Ilex cookii)	2	321	Assess periodicity and pollination mechanisms	Not Started			Universities, U.S. Fish and Wildlife Service, Office of Endangered Species	Research	Graduate Student, Species Expert	

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Elfin tree fern (Cyathea dryopteroides), Cook's holly (Ilex cookii)	2	322	Assess fruit/spore and seed dispersal	Not Started			Universities, U.S. Fish and Wildlife Service, Office of Endangered Species	Research	Graduate Student, Species Expert	
Elfin tree fern (Cyathea dryopteroides), Cook's holly (Ilex cookii)	2	323	Evaluate seed viability and germination requirements	Not Started			Botanical Gardens, Universities, U.S. Fish and Wildlife Service, Office of Endangered Species	Research	Graduate Student, Species Expert	
Elfin tree fern (Cyathea dryopteroides), Cook's holly (Ilex cookii)	2	324	Evaluate seedling	Not Started			Universities, U.S. Fish and Wildlife Service, Office of Endangered Species	Research	Graduate Student, Species Expert	
Elfin tree fern (Cyathea dryopteroides), Cook's holly (Ilex cookii)	2	325	Evaluate role of vegetative regeneration	Not Started			Universities, U.S. Fish and Wildlife Service, Office of Endangered Species	Research	Graduate Student, Species Expert	
Elfin tree fern (Cyathea dryopteroides), Cook's holly (Ilex cookii)	2	33	Define habitat requirements	Not Started			Universities, Puerto Rico Department of Natural and Environmental Resources, U.S. Fish and Wildlife Service, Office of Endangered Species	Research	Graduate Student, Species Expert	
Elfin tree fern (Cyathea dryopteroides), Cook's holly (Ilex cookii)	2	341	Assess site suitability	Not Started			Puerto Rico Department of Natural and Environmental Resources, U.S. Fish and Wildlife Service, Office of Endangered Species	Research	Species Expert	
Elfin tree fern (Cyathea dryopteroides), Cook's holly (Ilex cookii)	2	342	Assess site protection	Not Started			Conservation Organizations, Puerto Rico Department of Natural and Environmental Resources, U.S. Fish and Wildlife Service, Office of Endangered Species	Management	Internal Technical Assistance	

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Elfin tree fern (Cyathea dryopteroides), Cook's holly (Ilex cookii)	2	4	Refine recovery goals	Not Started			Puerto Rico Department of Natural and Environmental Resources, U.S. Fish and Wildlife Service, Office of Endangered Species, USFWS Regional Office 4	Management	Internal Field Assistance, Internal Technical Assistance	